



An employee-owned company

July 11, 2007

Mr. John Morris, P.G.
Florida Department of Environmental Protection
Southwest District Office - Solid Waste Section
13051 N. Telecom Parkway
Temple Terrace, Florida 33637-0926

**Re: Manatee County Lena Road Landfill
Monthly Report – June 2007**

Dear Mr. Morris:

This letter includes the following monthly reports: Monthly Water Balance Report (Exhibit A), Monthly Leachate Tracking Summary - 2007 (Exhibit B), Monthly Leachate Meter Readings, Monthly Rainfall, and Monthly Groundwater Gradient Report.

An inward gradient was present in Stage I and Stage III of the landfill.

If you should have any questions concerning this report, please call me at 407/806-4153.

Sincerely,

Joe Miller, P.E.
Senior Project Manager

Attachments

cc: Daniel T. Gray, Director, Utility Operations Department
Gus DiFonzo, Solid Waste Manager
Mike Gore/Jeanne Detweiler, Manatee County Landfill Division
File – 120498.94 0100

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Dept. of Environmental
Protection
JUL 13 2007
Southwest District

EXHIBIT A

MANATEE COUNTY SOLID WASTE MANAGEMENT FACILITY
 LENA ROAD LANDFILL
 MONTHLY WATER BALANCE REPORT
 June, 2007

pt. of Environmental
 Protection
 JUL 13 2007
 Southwest District

A	B	C	D	E	F	G	H
DATE	LEACHATE STAGE I Lift Station 1 (gallons)	LEACHATE STAGE I Lift Station 2 (gallons)	LEACHATE STAGE I TOTAL (gallons)	LEACHATE STAGE III TOTAL (gallons)	TOTAL LEACHATE PUMPED (gallons)	RAINFALL (inches)	RAINFALL (gallons)
01-Jun-07	13,360	1,200	14,560	30,300	44,860	1.65	7,527,652
02-Jun-07	0	0	0	0	0	0.76	3,467,282
03-Jun-07	0	0	0	0	0	0.00	0
04-Jun-07	38,550	3,800	42,350	93,400	135,750	0.00	0
05-Jun-07	19,490	2,400	21,890	59,900	81,790	0.00	0
06-Jun-07	1,680	200	1,880	4,300	6,180	0.13	593,088
07-Jun-07	8,540	1,100	9,640	29,000	38,640	0.00	0
08-Jun-07	8,350	1,200	9,550	29,100	38,650	0.02	91,244
09-Jun-07	0	0	0	0	0	0.00	0
10-Jun-07	0	0	0	0	0	0.00	0
11-Jun-07	32,620	4,000	36,620	91,000	127,620	0.00	0
12-Jun-07	10,010	1,300	11,310	28,200	39,510	0.00	0
13-Jun-07	15,140	1,600	16,740	43,600	60,340	1.02	4,653,457
14-Jun-07	8,660	800	9,460	21,800	31,260	0.00	0
15-Jun-07	9,840	900	10,740	28,400	39,140	0.00	0
16-Jun-07	0	0	0	0	0	0.00	0
17-Jun-07	0	0	0	0	0	0.06	273,733
18-Jun-07	28,110	2,700	30,810	93,700	124,510	1.53	6,980,186
19-Jun-07	7,760	700	8,460	30,500	38,960	0.00	0
20-Jun-07	12,330	1,100	13,430	36,900	50,330	0.00	0
21-Jun-07	11,530	1,100	12,630	31,700	44,330	0.00	0
22-Jun-07	13,950	1,400	15,350	41,000	56,350	0.00	0
23-Jun-07	0	0	0	0	0	0.00	0
24-Jun-07	0	0	0	0	0	0.00	0
25-Jun-07	28,530	2,900	31,430	95,600	127,030	0.00	0
26-Jun-07	6,440	700	7,140	25,500	32,640	0.00	0
27-Jun-07	10,020	1,000	11,020	33,600	44,620	0.03	136,866
28-Jun-07	12,270	1,200	13,470	39,300	52,770	0.45	2,052,996
29-Jun-07	7,180	800	7,980	24,100	32,080	0.00	0
30-Jun-07	0	0	0	0	0	0.00	0
01-Jul-07	0	0	0	0	0	0.00	0
TOTAL	304,360	32,100	336,460	910,900	1,247,360	5.65	25,776,504
Leachate Pumped as Percentage of Rainfall			2.1%	9.0%			

Column Notes:

- A - Date of reading.
- B - Leachate pumped (gallons) from Stage I by lift station 1.
- C - Leachate pumped (gallons) from Stage I by lift station 2.
- D - Total Stage I leachate pumpage (B+C).
- E - Leachate pumped (gallons) from Stage III.
- F - Total leachate pumped to WWTP storage tank (D+E).
- G - Rainfall (inches) recorded on this date.
- H - Rainfall (gallons) calculated based on open area (G x Area x 27,156 gal/acre-in).

	Stage I (acres)	Stage III (acres)	TOTAL (acres)
Initial Cover	--	66.0	66.0
Intermediate Cover	102.0	--	102.0
Closed	30.0	--	30.0
TOTAL	132.0	66.0	198.0
Open Area	102.0	66.0	168.0

Comments

EXHIBIT B

MANATEE COUNTY SOLID WASTE MANAGEMENT FACILITY LENA ROAD LANDFILL MONTHLY LEACHATE TRACKING SUMMARY -- 2007

	B	C	D	E	F	G	H
MONTH	STAGE I	STAGE III	TOTAL			STAGE I	STAGE III
	LEACHATE (gallons)	LEACHATE (gallons)	LEACHATE (gallons)	RAINFALL (inches)	RAINFALL (gallons)	LEACHATE/ RAINFALL (%)	LEACHATE /RAINFALL (%)
JANUARY	427,030	961,900	1,388,930	2.36	10,766,823	6.5%	22.7%
FEBRUARY	510,050	881,000	1,391,050	1.09	4,972,812	16.9%	45.1%
MARCH	609,530	844,000	1,453,530	0.46	2,098,618	47.8%	102.4%
APRIL	406,390	928,800	1,335,190	3.32	15,146,547	4.4%	15.6%
MAY	349,750	871,400	1,221,150	0.16	729,954	78.9%	303.9%
JUNE	336,460	910,900	1,247,360	5.65	25,776,504	2.1%	9.0%
JULY			0		0		
AUGUST			0		0		
SEPTEMBER			0		0		
OCTOBER			0		0		
NOVEMBER			0		0		
DECEMBER			0		0		
TOTAL	2,639,210	5,398,000	8,037,210	13.04	59,491,258	7.3%	23.1%

Notes:

1. (B) Total leachate pumped from Stage I.
2. (C) Total leachate pumped from Stage III.
3. (D) Total leachate (Column B+C) pumped to the WWTP storage tank.
4. (E) Total rainfall in inches.
5. (F) Total rainfall in gallons (Stage I and III Open Area of 168-acres x Rainfall)
6. (G) Stage I leachate pumped as a percentage of rainfall.
7. (H) Stage III leachate pumped as a percentage of rainfall.

Landfill Stage Land Areas

	Stage I (acres)	Stage III (acres)	TOTAL (acres)
Initial Cover	--	66.0	66.0
Intermediate Cov.	102.0	--	102.0
Closed	30.0	--	30.0
TOTAL	132.0	66.0	198.0
Open Area	102.0	66.0	168.0

696400 ADD to meter #2

DATE	LEACHATE			STORMWATER		COMMENTS	NAME
	METER # 1	METER # 2	METER # 3	S. G. # 1	S. G. # 2		
6/1/07	3408097	805300	2403704	31.36	29.32 Dry	OK	AD
6/2/07							
6/4/07	3411952	809100	2404638	31.67	29.32	OK	AD
6/5/07	3413901	811500	2405237	31.65	29.32	OK	AD
6/8/07	3414069	811700	2405286	31.65	29.82	OK	AD
6/7/07	3414923	812800	2405570	31.66	29.70	OK	AD
6/8/07	3415758	814000	2405861	31.65	29.88	OK	AD
6/9/07							
6/11/07	3419020	818000	2406771	31.60	29.38	OK	AD
6/12/07	3420021	819300	2407053	31.59	29.38	OK	AD
6/13/07	3421535	820900	2407489	31.68	29.86	OK	AD
6/14/07	3422401	821700	2407707	31.67	29.83	OK	AD
6/15/07	3423385	822600	2407991	31.59	29.80	OK	AD
6/18/07							
6/18/07	3426196	825300	2408928	31.66	29.89	OK	AD
6/19/07	3426972	826000	2409233	32.00	31.10	OK	AD
6/20/07	3428205	827100	2409602	32.97	31.00	OK	AD
6/21/07	3429358	828200	2409919	31.96	31.08	OK	AD
6/22/07	3430753	829600	2410329			OK	AD
6/23/07							
6/25/07	3433606	832500	2411285	31.92	30.18	OK	AD
6/26/07	3434250	833200	2411540	31.90	30.15	OK	AD
6/27/07	3435252	834200	2411876	31.89	30.15	OK	AD
6/28/07	3436479	835400	2412269	31.80	29.84	OK	AD
6/29/07	3437197	836200	2412510	31.84	29.85	OK	AD

Landfill

LANDFILL SHEET		
2007 Jun	RAIN FALL	LEACHATE MGD
1	1.65	0.007
2	0.76	0.010
3	0.00	0.008
4	0.00	0.008
5	0.00	0.008
6	0.13	0.008
7	0.00	0.008
8	0.02	0.007
9	0.00	0.008
10	0.00	0.008
11	0.00	0.007
12	0.00	0.007
13	1.02	0.008
14	0.00	0.008
15	0.00	0.008
16	0.00	0.007
17	0.06	0.007
18	1.53	0.008
19	0.00	0.009
20	0.00	0.008
21	0.00	0.008
22	0.00	0.009
23	0.00	0.008
24	0.00	0.008
25	0.00	0.008
26	0.00	0.007
27	0.03	0.008
28	0.45	0.008
29	0.00	0.008
30	0.00	0.008
	0.00	0.000
TOTAL	5.65	0.238
AVG		0.008
MIN		
MAX	1.65	0.010

Fax # 9-708-5668

FIGURE L-7

Manatee County Lena Road Landfill

Monthly Groundwater Gradient Report

Month and Year: June 2007

Piezometers Inside Slurry Wall				Groundwater Monitoring Wells Outside Slurry Wall		
Piezometer	Riser Elevation	Leachate Elevation	Gradient Flow	Monitoring Well	Riser Elevation	Groundwater Elevation
P-1	42.68	29.40	<i>inward</i>	GW-1	38.68	29.72
P-2	42.32	28.53	<i>inward</i>	GW-2	40.92	29.67
P-3	40.36	25.81	<i>inward</i>	GW-3	39.40	31.59
P-4	40.78	22.15	<i>inward</i>	GW-4	40.53	30.80
P-5	40.73	21.76	<i>inward</i>	GW-5	39.90	30.32
P-6	40.74	21.42	<i>inward</i>	GW-6	38.95	29.89
P-7	40.60	21.45	<i>inward</i>	GW-7	39.49	26.63
P-8	40.21	21.40	<i>inward</i>	GW-8	39.75	27.11
P-9	39.97	21.52	<i>inward</i>	GW-9	39.65	26.47
P-10	39.86	20.49	<i>inward</i>	GW-10	38.34	26.79
P-11	40.52	22.79	<i>inward</i>	GW-11	38.26	29.55
P-12	43.28	29.46	<i>inward</i>	GW-12	42.09	30.27
P-13	44.78	30.39	<i>inward</i>	GW-13	44.79	31.97
P-14	45.09	29.91	<i>inward</i>	GW-14	39.63	32.33
P-15	45.57	31.01	<i>inward</i>	GW-15	42.33	33.38
P-16	44.67	31.11	<i>inward</i>	GW-16	44.41	31.15
P-17	44.28	29.99	<i>inward</i>	GW-17	42.19	32.70

Comments:

Date Data Collected: June 28, 2007

Form Revised December 6, 2004